MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

DCS5288 – INTERNET AND WEB PUBLISHING

(All IT Groups)

16 OCTOBER 2017
2.30 p.m - 4.30 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This question paper consists of 11 pages with 20 Multiple Choice Questions and 4 structured questions.

2. **SECTION A**: Answer **ALL** questions. Please shade your answers on the OMR sheet provided.

3. **SECTION B**: Answer **ALL** questions. Please write your answers in the answer booklet provided.

SECTION A : MULTIPLE CHOICE QUESTIONS (20 MARKS)

Answer ALL questions in this section. Shade your answers on the OMR sheet provided.

1. The initial development of Internet for _____ is to establish a secure way to communicate with all computers.

   A. U.S Department of Communication
   B. U.K Department of Communication
   C. U.S Department of Defense
   D. U.K Department of Defense

2. A domain name is a unique text-based Internet address corresponding to a unique _____.

   A. IP address
   B. Email address
   C. Domain name
   D. Resource reference

3. Which of the following **BEST** explains about packet switching?

   A. Mode of data transmission which message sent together over route that is optimum for each packet.
   B. Mode of data transmission which message is broken down into number of parts following a route that is optimum for the packets and reassemble at the destination.
   C. Mode of data transmission which message sent together over route that is available for transmission.
   D. Mode of data transmission which message is broken down into number of parts and sent independently over route that is optimum for each packet and reassemble at the destination.

4. _____ helps filters all traffic between a protected or "inside" network and a less trustworthy or "outside" network.

   A. Whaling
   B. Firewall
   C. Filtering
   D. Spamming

5. HTML tags are always bracketed within _____ and _____ character.

   A. (,)
   B. { , }
   C. [,]
   D. <, >

Continued...

6. The HTML tag also known as the _____.

   A. parent element
   B. child element
   C. root element
   D. sibling element

7. The area within `<head></head>` section can consist of the following HTML elements **EXCEPT**:

   A. `<p></p>`
   B. `<meta>`
   C. `<script></script>`
   D. `<title></title>`

8. Which of the following HTML statements will display the output shown below?

   i. H
   ii. E
   iii. Y

   A. <ul style="i">
H
E Y
   B. <ul type="i">
H
E
Y
   C. <ol style="i">
H
E
Y
   D. <ol type="i"> H
E Y

9. The following statements briefly describe about CSS **EXCEPT**:

   A. CSS is a language that has its own syntax rules.
   B. CSS can only be added within the <head> element.
   C. CSS is a W3C standard for describing the presentation (or appearance) of HTML elements.
   D. CSS can be used to adopt a page for different output mediums.

10. In the style code shown below, X refers to the _____.

```
h1{font-size: 24px;}
```

X

   A. property
   B. declaration
   C. value
   D. selector

11. Which of the following defines a CSS **class selector** called *second-para*?

   A. second-para { }
   B. #second-para { }
   C. .second-para { }
   D. .second-para [ ]

Continued...

12. CSS uses cascade principles when dealing with conflicts. Which of the following is part of cascade principles?

    A. Inheritance
    B. Specificity
    C. Location
    D. All of the above.

13. Based on the JavaScript code segment shown below, the word **`document`** is a(n) _____.

```
document.write("Hello World");
```

    A. method
    B. object
    C. behaviour
    D. attribute

14. What would the browser display if the following JavaScript codes were executed?

```
var quantity = 0;

while (quantity >= 25);
   product = 2 + quantity;
document.write(quantity);
```

    A. 0
    B. 2
    C. 25
    D. 27

15. In a switch statement, the _____ case clause is used to process exceptional conditions.

    A. break
    B. default
    C. else
    D. then

16. Based on the HTML code segment below, which of the following is an *attribute node* in Document Object Model (DOM) Structure?

```
<h4>Contact us :
  <a href="mailto:cdpitp@mmu.edu.my">
  cdpitp@mmu.edu.my</a>
</h4>
```

    A. `<a>`
    B. `cdpitp@mmu.edu.my`
    C. `href="mailto:cdpitp@mmu.edu.my"`
    D. `h4`

Continued...

17. What will be the output of the following PHP code?

```
<?php
$num = 5;
echo 'You have ordered $num products';
?>
```

A. You have ordered $num products
B. You have ordered $5 products
C. You have ordered 5 products
D. You have ordered $num = 5 products

18. Which of the following is **NOT** a consideration when deciding to define a PHP user-defined function?

A. Number of parameters to be passed
B. In what order the parameters will be passed
C. Unique name for each parameter
D. Global variable to be available within the function

19. What will be the output of the following PHP code?

```
<?php
    $team = "B";
    switch ($team) {
    case "A":
        echo "I love CDP!";
    case "B":
        echo "I love MMU!";
    case "C":
        echo "I love Melaka!";
    }
?>
```

A. `I love CDP!I love MMU!";`
B. `I love MMU!";`
C. `I love MMU!I love Melaka!`
D. `I love Melaka!`

20. Which of the following statements will remove all PHP Session variables?

A. `session_destroy();`
B. `session_unset();`
C. `session_remove();`
D. `session_removeall();`

Continued...

SECTION B : STRUCTURED QUESTIONS (80 MARKS)

Answer ALL questions in this section. Write your answers in the answer booklet provided.

QUESTION 1: HTML (20 MARKS)

Write the HTML codes to generate the following table. Do not use any CSS codes or deprecated HTML code. [20 marks]

TABLE OF NUTRIENTS

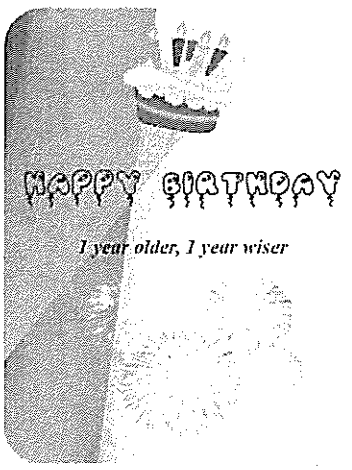
Nutrients	Major Sources	Functions	Effect of Deficiency
A	Tomato, Carrot, Green vegetables	For Vision	1. **Night Blindness** 2. Infections
B_1	Whole grains, meat, milk	As *Coenzyme* • helps body to oxidize *carbohydrates* to release energy	**Beri-Beri**
B_2	Meat, fish, liver		Dry skin
B_3	Meat, potatoes		**Pellagra**

- Note that the word '**Night Blindness**', '**Beri-Beri**' and '**Pellagra**' are in bold.
- The word '*carbohydrates*' appears in italic.
- The word '***Coenzyme***' is displayed in both bold and italicize.

Continued...

QUESTION 2: CSS (20 MARKS)

a. Write the External CSS codes based on the following output and HTML codes given. [14 marks]




```
<div id="hb-wrap">
    <div class="hb-image">
        <img src="image/cake.png" />
        <h1>HAPPY BIRTHDAY</h1>
        <p>1 year older, 1 year wiser</p>
    </div>
    <div class="fireworks">
        <img src="image/firework.png" name="firework"/>
    </div>
</div>
```

Guides

- The *hb-wrap* box:
  - Located in the middle of the webpage and the width is 400px.
  - The background image name is *bg.png* and located in a sub-folder named *image*.
  - The borders are solid, colour is #FFBDDC and 4px thick and the corners are rounded by 50px.
  - The content is center aligned.
  - The padding for top and bottom sides are 10px while the right and left sides are 20px.
- Image in the *hb-image* box:
  - The height and width are 170px.
- Heading level 1 in the *hb-image* box:
  - Add a new font named JI Balloon Caps. Assume that the font file *JI Balloon Caps.ttf* is saved in the same folder.
  - Use this *JI Balloon Caps* font and the set the size to 50px.
  - The text is italics.
  - The text colour is #1E3CA6.
- The smaller text in the paragraph:
  - The text is in italics and bold.
  - The size is 25px.
  - The text colour is #982065.
- The image in the *fireworks* box:
  - The width is 300px.
  - The height is 200px.

Continued...

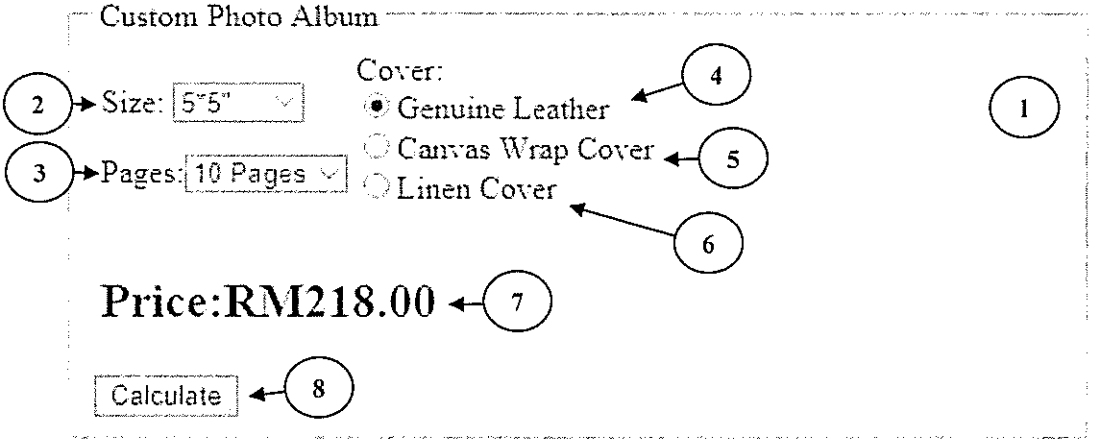
b. Write only the Internal CSS codes for the webpage body based on the following descriptions. [6 marks]

- The background colour code is #F9EE9C.
- There are two background images; *icon1.png* and *icon2.png* which are both located in the *image* sub-folder.
- *icon1.png* is repeated horizontally and *icon2.png* is repeated vertically.
- The size of the image is 80px in height and width.

Continued...

QUESTION 3: JavaScript (20 MARKS)

Given the output shown below, write the JavaScript `calc_price()` function codes to calculate and display the price for the custom photo album based on user selection of the photo album size, album cover type and number of pages. Refer to the guide for more details. [20 marks]



Guide

- The table below indicates the attribute for each element in the form according to the numbered label above.

No.	Element	Attributes
1	`form`	`name="form_album"`
2	`select`	`name="album_size" id="album_size"`
3	`select`	`name="num_page" id="num_page"`
4	`input`	`type="radio" name="album_cover" id="album_cover1"`
5	`input`	`type="radio" name="album_cover" id="album_cover2"`
6	`input`	`type="radio" name="album_cover" id="album_cover3"`
7	`span`	`id="total_price"`
8	`input`	`type="button" onclick="calc_price()" value="Calculate"`

- In function `calc_price()`:
  - Data about album size and number of pages will be retrieved from form *form_album*.
  - The total price will be determine by calling three separate function: `get_pagePrice()`, `get_pageNum()` and `get_coverPrice()`; and calculate using the following formula:

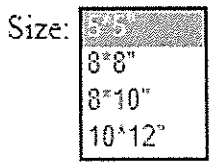
    Total Price = Price per page * Number of pages + Cover page price
  - You need to pass the data from album size through `get_pagePrice()` function call as an argument in order to get the price per page value. You also need to pass an argument to `get_pageNum()` function call to get the number of pages value. However no argument is needed for `get_coverPrice()` function.

Continued...

- The Total Price will be displayed using ***innerHTML*** property of `span` element.

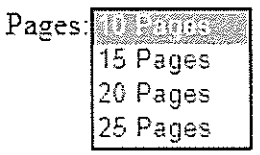
- In function `get_pagePrice(...)`:
  - User can choose album size in the dropdown list based on the table below which also appear in form according to the same order in the table.

Album Size	Price per Page
5*5"	6.80
8*8"	10.80
8*10"	12.80
10*12"	15.80



  - Use *if...else* statement to determine the price per page.
  - Return the price per page value.

- In function `get_pageNum(...)`:
  - User can only choose number of pages of the photo album based on the options available in the dropdown list.



  - Use *switch...case* statement to determine the number of pages.
  - Return the number of pages.

- In function `get_coverPrice()`:
  - User can only choose one of the cover pages by clicking the radio button. Each selection will have a different price to be charged for the whole photo album.

Cover page type	Cover page price
Genuine Leather	150.00
Canvas Wrap Cover	25.00
Linen Cover	45.00

  - Use *if...else* statement to determine which cover page type user has selected and set the price according to the table above.
  - Return the cover page price.

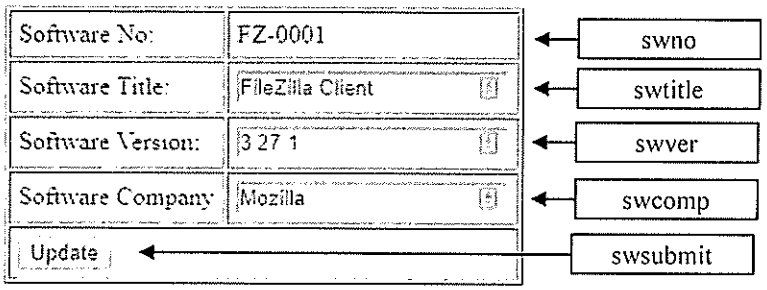
Continued...

Question 4: PHP (20 MARKS)

The figure below shows the *tblSoftware* table in the *dbSWManagement* database from MySQL. The table contains records of each software purchased by SSSN Enterprise to ensure that only genuine software are installed in an employee's desktop computers.

Attribute Name	Data Type	Details
SW_No	varchar(15)	Primary key
SW_Title	varchar(50)	
SW_Ver	varchar(50)	
SW_Comp	varchar(50)	

a. Create a page where the admin staff can update the using an online form based on the output shown below. [14 marks]



- Use the PHP *define()* function to define the constant for the server name, MySQL Username, MySQL Password and the database name.

  Server Name: localhost
  MySQL Username: swadmin
  MySQL Password: admin555
  Database Name: dbSWManagement

- Create the connection with MySQL Server.
- Assume that this page was accessed by passing a querystring from the URL below.

  http://localhost/updsoftware.php?SWNO=FZ-0001

- Retrieve the record from table *tblSoftware* where the value 'FZ-0001' represents the primary key which is *SW_No*. All data except the *Software No* can be edited.
- Create a form where data for the Software No will be attached to a hidden input while the others will appear in text boxes.
- When the Update button is clicked, the form will send the data to *updsoftware.php* file for processing.

Continued...

b. Write a PHP code for *updsoftware.php* page that will update the *tblSoftware* table. Once the process is completed, redirect the user to the *software.php* page. Assume that the code for the database connection already exist.

[6 marks]

End of Page.